Mead, Nancy

Nancy R. Mead is a senior member of the technical staff in the NSS Program at the SEI. Mead is also a faculty member in the Master of Software Engineering and Master of Information Systems Management programs at Carnegie Mellon University. She is currently involved in the study of secure systems engineering and the development of professional infrastructure for software engineers. During fiscal year 2005 she served as team lead for the initial BSI Web Site development and launch. In fiscal year 2006 she continues on the BSI project as technical lead. She also served as director of education for the SEI from 1991 to 1994.

Prior to joining the SEI, Mead was a senior technical staff member at IBM Federal Systems, where she spent most of her career in the development and management of large real-time systems. She also worked in IBM's software engineering technology area and managed IBM Federal Systems' software engineering education department. She has developed and taught numerous courses on software engineering topics, both at universities and in professional education courses.

Mead has more than 100 publications and invited presentations and has a biographical citation in Who's Who in America. She is a Fellow of IEEE and the IEEE Computer Society and is also a member of the ACM.

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Recent Publications

Allen, J., Barnum, S., Ellison, R., McGraw, G., & Mead, N. R. *Software Security Engineering: A Guide for Project Managers*, Addison-Wesley, 2008 (ISBN 978-0-321-50917-8).

Caulkins, J., Hough, E. D., Mead, N. R., & Osman, H. "Optimizing Investments in Security Countermeasures: A Practical Tool for Fixed Budgets." *IEEE Security & Privacy 5*, 5 (Sept./Oct. 2007): 24-27.

Ingalsbe, J. A., Kunimatsu, L., Baeten, T., & Mead, N. R. "Threat Modeling: Diving into the Deep End." *IEEE Software 5*, 1 (Jan./Feb. 2008): 28-34.

Mead, N. R., Hough, E., & Stehney, T. *Security Quality Requirements Engineering (SQUARE) Methodology* (CMU/SEI-2005-TR-009[1]). Pittsburgh, PA: Software Engineering Institute, Carnegie Mellon University, 2005.

Mead, N. R., Allen, J., Conklin, W. A., Drommi, A., Harrison, J., Ingalsbe, J., Rainey, J., & Shoemaker, D. *Making the Business Case for Software Assurance* (CMU/SEI-2009-SR-001[2]). Pittsburgh, PA: Software Engineering Institute, Carnegie Mellon University, 2009.

1. http://www.sei.cmu.edu/library/abstracts/reports/05tr009.cfm
2. http://www.sei.cmu.edu/library/abstracts/reports/09sr001.cfm

Mead, N. R. & Shoemaker, D. Ch. VI, "Novel Methods of Incorporating Security Requirements Engineering into Software Engineering Courses and Curricula," 98-113. *Software Engineering: Effective Teaching and Learning Approaches and Practices.* Edited by Ellis, Demurjian, and Naveda. IGI Global, 2008.

Mead, N. R. "Identifying Security Requirements Using the Security Quality Requirements Engineering (SQUARE) Method," 44-69. *Integrating Security and Software Engineering: Advances and Future Visions*. Edited by H. Mouratidis and P. Giorgini. Idea Group, 2006 (ISBN 1-59904-147-2).

BSI Articles

Name	Content Areas
Optimizing Investments in Security Countermeasures: A Practical Tool for Fixed Budgets	best-practices/requirements
Requirements Prioritization Case Study Using AHP	best-practices/requirements
Requirements Prioritization Introduction	best-practices/requirements
SQUARE Process	best-practices/requirements
The Common Criteria	best-practices/requirements
A Common Sense Way to Make the Business Case for Software Assurance	knowledge/business
Requirements Engineering Annotated Bibliography	best-practices/requirements
Former Reviewers	
Requirements Elicitation Introduction	best-practices/requirements
Models for Assessing the Cost and Value of Software Assurance	knowledge/business
Project Leadership	
Security Requirements Engineering	best-practices/requirements
Making the Business Case for Software Assurance	knowledge/business
Requirements Elicitation Case Studies Using IBIS, JAD, and ARM	best-practices/requirements